

## WEST Search History





DATE: Thursday, October 26, 2006

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		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L15	345/440.ccls.	1140
<input type="checkbox"/>	L14	345/422.ccls.	463
<input type="checkbox"/>	L13	345/421.ccls.	490
<input type="checkbox"/>	L12	345/419.ccls.	2615
<input type="checkbox"/>	L11	345/418.ccls.	1222
<input type="checkbox"/>	L10	345/420.ccls.	971
<input type="checkbox"/>	L9	7088374.pn.	2
<input type="checkbox"/>	L8	7126606.pn.	1
<input type="checkbox"/>	L7	scene with graph and hierarch\$5 and thread\$1 and subset and canvas	13
<input type="checkbox"/>	L6	L5 and scene same graph	5
<input type="checkbox"/>	L5	nguyen-kimbinh-\$.xa.	203
<input type="checkbox"/>	L4	L2 and node and opaque and transparent	3
<input type="checkbox"/>	L3	L2 and canvas same different same single	3
<input type="checkbox"/>	L2	scene same graph and hierarch\$4 and thread\$1 and message and state and canvas	13
		<i>DB=USPT; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L1	6570564.pn.	1

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<input type="checkbox"/>	L2	345/581.ccls.	705
<input type="checkbox"/>	L1	345/426.ccls.	788

END OF SEARCH HISTORY

Day : Thursday  
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**PALM INTRANET**

Time: 11:10:36

**Inventor Name Search Result**

Your Search was:

Last Name = SOWIZRAL


First Name = HENRY

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<a href="#">09247466</a>	<a href="#">6300965</a>	150	02/09/1999	VISIBLE-OBJECT DETERMINATION FOR INTERACTIVE VISUALIZATION	SOWIZRAL, HENRY
<a href="#">09668493</a>	<a href="#">6570564</a>	150	09/22/2000	METHOD AND APPARATUS FOR RAPID PROCESSING OF SCENE-BASED PROGRAMS	SOWIZRAL, HENRY
<a href="#">09759597</a>	Not Issued	93	01/11/2001	CREATING A PARALLEL STRUCTURE FOR SCENE-BASED RENDERING	SOWIZRAL, HENRY
<a href="#">09759598</a>	<a href="#">6765571</a>	150	01/11/2001	USING A MASTER CONTROLLER TO MANAGE THREADS AND RESOURCES FOR SCENE-BASED RENDERING	SOWIZRAL, HENRY
<a href="#">09760000</a>	Not Issued	71	01/11/2001	Using render bin parallelism for rendering scene graph based graphics data	SOWIZRAL, HENRY
<a href="#">09760002</a>	<a href="#">6734852</a>	150	01/11/2001	USING RENDERING MOLECULES TO MANAGE SCENE-BASED RENDERING	SOWIZRAL, HENRY
<a href="#">09760511</a>	<a href="#">7061486</a>	150	01/11/2001	USING MESSAGING TO MANAGE SCENE-BASED RENDERING	SOWIZRAL, HENRY
<a href="#">09970080</a>	<a href="#">6983283</a>	150	10/03/2001	MANAGING SCENE GRAPH MEMORY USING DATA STAGING	SOWIZRAL, HENRY
<a href="#">09974623</a>	<a href="#">6445391</a>	150	10/09/2001	VISIBLE-OBJECT DETERMINATION FOR INTERACTIVE VISUALIZATION	SOWIZRAL, HENRY
<a href="#">10077343</a>	<a href="#">7006954</a>	150	02/15/2002	RANDOM SAMPLING FOR MULTIVARIATE BERNOULLI	SOWIZRAL, HENRY

				VARIABLES	
<u>10256582</u>	Not Issued	30	09/27/2002	Optimizing placement of MPLS tunnels	SOWIZRAL, HENRY
<u>11085500</u>	Not Issued	30	03/21/2005	Automatic layout of items along an embedded one-manifold path	SOWIZRAL, HENRY
<u>60074868</u>	Not Issued	159	02/17/1998	VISIBLE-OBJECT DETERMINATION FOR INTERACTIVE VISUALIZATION	SOWIZRAL, HENRY
<u>60156054</u>	Not Issued	159	09/24/1999	METHOD AND APPARATUS FOR RAPID PROCESSING OF SCENE-BASED PROGRAMS	SOWIZRAL, HENRY
<u>60175580</u>	Not Issued	159	01/11/2000	JAVA 3D ARCHITECTURE	SOWIZRAL, HENRY
<u>60236755</u>	Not Issued	159	09/29/2000	Managing scene graph memory using data staging	SOWIZRAL, HENRY
<u>60250823</u>	Not Issued	159	12/01/2000	Multiple processor visibility search system and method	SOWIZRAL, HENRY
<u>60254049</u>	Not Issued	159	12/06/2000	Using ancillary geometry for visibility determination	SOWIZRAL, HENRY
<u>09894196</u>	<u>6373485</u>	150	06/27/2001	MITIGATING THE EFFECTS OF OBJECT APPROXIMATIONS	SOWIZRAL, HENRY A.
<u>09894662</u>	Not Issued	168	06/28/2001	Size conditioned visibility search system and method	SOWIZRAL, HENRY A.
<u>09895665</u>	<u>6437796</u>	150	06/29/2001	MULTIPLE PROCESSOR VISIBILITY SEARCH SYSTEM AND METHOD	SOWIZRAL, HENRY A.
<u>09948960</u>	<u>6750859</u>	150	09/07/2001	SIZE CONDITIONED VISIBILITY SEARCH SYSTEM AND METHOD	SOWIZRAL, HENRY A.
<u>10012595</u>	<u>6731304</u>	150	12/06/2001	USING ANCILLARY GEOMETRY FOR VISIBILITY DETERMINATION	SOWIZRAL, HENRY A.
<u>10060979</u>	<u>7050053</u>	150	01/30/2002	GEOMETRIC FOLDING FOR CONE-TREE DATA COMPRESSION	SOWIZRAL, HENRY A.
<u>11085501</u>	Not Issued	20	03/21/2005	Robust interactive color editing	SOWIZRAL, HENRY A.
<u>11217810</u>	Not Issued	30	09/01/2005	Three dimensional adorer	SOWIZRAL, HENRY A.
<u>11224915</u>	Not Issued	20	09/12/2005	Blended editing of literal and non-literal values	SOWIZRAL, HENRY A.
<u>60214843</u>	Not	159	06/28/2000	Size conditioned visibility search	SOWIZRAL,

	Issued			system and method	HENRY A.
<u>60214939</u>	Not Issued	159	06/29/2000	Mitigating the effects of object approximations	SOWIZRAL, HENRY A.
<u>08781104</u>	<u>6023279</u>	150	01/09/1997	METHOD AND APPARATUS FOR RAPIDLY RENDERING COMPUTER GENERATED IMAGES OF COMPLEX STRUCTURES	SOWIZRAL, HENRY A.
<u>09227428</u>	<u>6184896</u>	150	01/08/1999	SYSTEM AND METHOD FOR IMPROVED RENDERING OF GRAPHICAL ROTATIONS	SOWIZRAL, HENRY A.
<u>09782956</u>	<u>6678251</u>	150	02/13/2001	LINK QUALITY AGENT	SOWIZRAL, HENRY ADAM
<u>09919980</u>	Not Issued	161	07/31/2001	Encryption and decryption method, apparatus, and system	SOWIZRAL, HENRY ADAM
<u>09929707</u>	Not Issued	161	08/13/2001	Pseudo 16B/20B 20B/16B encoder-decoder for an 8B/10B 10B/8B coding	SOWIZRAL, HENRY ADAM
<u>10001427</u>	<u>7020147</u>	150	11/13/2001	A NETWORK TRAFFIC DIRECTOR SYSTEM HAVING MODULES THAT IMPLEMENT MERIT OR PENALTY FUNCTIONS INVOLVING STOCHASTIC CHANGES IN NETWORK TOPOLOGY	SOWIZRAL, HENRY ADAM
<u>10625341</u>	<u>7012897</u>	150	07/22/2003	LINK QUALITY AGENT	SOWIZRAL, HENRY ADAM
<u>09176061</u>	<u>6310881</u>	150	10/20/1998	METHOD AND APPARATUS FOR NETWORK CONTROL	SOWIZRAL, HENRY ADAM

**Inventor Search Completed:** No Records to Display.

<b>Search Another: Inventor</b>	<b>Last Name</b>	<b>First Name</b>	
	<input type="text" value="SOWIZRAL"/>	<input type="text" value="HENRY"/>	

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 **PALM INTRANET**

## Inventor Information for 09/760000

Inventor Name	City	State/Country
<u>SOWIZRAL, HENRY</u>	BELLUVE	WASHINGTON
<u>RUSHFORTH, KEVIN</u>	SAN JOSE	CALIFORNIA
<u>TWILLEAGER, DOUG</u>	CAMBELL	CALIFORNIA

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scene graph and hierarchical group and thread



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**Web** Results 1 - 10 of about 18,100 for **scene graph and hierarchical group and thread and messages and**

[Using a master controller to manage threads and resources for ...](#)

read a **scene graph**, wherein the **scene graph** comprises a **hierarchical** ... A **single message** can go to many structures, so each **message** has a reference count. ...  
[www.freepatentsonline.com/6765571.html](http://www.freepatentsonline.com/6765571.html) - 108k - [Cached](#) - [Similar pages](#)

[Method and apparatus for transport of scenegraph information ...](#)

This **hierarchical** structure provides a well-organized framework for ... Node objects of a **scenegraph** may be separated into "**group** node" objects and "leaf ...  
[www.freepatentsonline.com/6751655.html](http://www.freepatentsonline.com/6751655.html) - 59k - [Cached](#) - [Similar pages](#)

[Crystal Space: Class List \(Crystal Space Public API Reference\)](#)

iSceneNode, This interface represents a node in the **scene graph** ...  
CS::Threading::ThreadGroup, A **group** of **threads** handled as one unit ...  
[www.crystalspace3d.org/docs/online/api/annotated.php](http://www.crystalspace3d.org/docs/online/api/annotated.php) - 209k - [Cached](#) - [Similar pages](#)

[Coin: Class List](#)

The internal **scene** data structures in Coin are managed as directed **graphs**. The **graphs** are built by setting up a hierarchy through the use of **group** nodes ...  
[doc.coin3d.org/Coin/annotated.html](http://doc.coin3d.org/Coin/annotated.html) - 160k - [Cached](#) - [Similar pages](#)

[\[PDF\] Chapter 7. Introducing Java 3D](#)

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the **scene graph** can be used to **group** shapes with common properties, ... The OpenMind API contains the expected elements, including **hierarchical scene** ...  
[fivedots.coe.psu.ac.th/~ad/jg/ch07/ch07.pdf](http://fivedots.coe.psu.ac.th/~ad/jg/ch07/ch07.pdf) - [Similar pages](#)

[Gamasutra - Book Excerpt - "Killer Game Programming in Java ...](#)

At the Java 3D implementation level, the **scene graph** is used to **group** shapes with ... (with no DirectX version), and the lack of **scene graph thread** safety. ...  
[www.gamasutra.com/features/20051216/davison\\_pfv.htm](http://www.gamasutra.com/features/20051216/davison_pfv.htm) - 76k - [Cached](#) - [Similar pages](#)

[\[PDF\] Hierarchy Browsers: Integrating Four Graph-Based Hierarchy ...](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

My colleagues at the IICM merit appreciation, those of the HVS **group** for ... is developed to detect underlying **hierarchical** structure of the **graph**, ...  
[www.iicm.edu/thesis/anussbaumer.pdf](http://www.iicm.edu/thesis/anussbaumer.pdf) - [Similar pages](#)

[Projects by Community](#)

The first to implement a **hierarchical** visualization example, the second for a ... An example Java3D Fly Through and **Scene Graph** Editor application ...  
[community.java.net/projects/community/javadesktop](http://community.java.net/projects/community/javadesktop) - 205k - [Cached](#) - [Similar pages](#)

[VTK: Class List](#)

... cells requiring an explicit representation. vtkExporter, Abstract class to write a **scene** to a file ... vtkTree, A **graph** representing a **hierarchical** tree ...  
[www.vtk.org/doc/nightly/html/annotated.html](http://www.vtk.org/doc/nightly/html/annotated.html) - 256k - [Cached](#) - [Similar pages](#)

[Visual C++ related programs: SMTP / POP3 C++ email component ...](#)

E-XD++ stores graphical objects in a node (**scene**) **graph** and renders those objects onto

the ... Objects can be grouped together in a **hierarchical** structure, ...  
www.surfpack.com/software/visualc/ - 106k - [Cached](#) - [Similar pages](#)

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Best 200 shown

 Relevance scale ☐ ☐ ☐ ☐ ☐

### 1 [Real-time shading](#)

Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost  
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

 Full text available: [pdf\(7.39 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabili ...

### 2 [Visualizing geospatial data](#)

Theresa Marie Rhyne, Alan MacEachren, Theresa-Marie Rhyne  
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

 Full text available: [pdf\(14.01 MB\)](#) Additional Information: [full citation](#), [abstract](#)

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include:• Rudimentary: minimal data sharing between the GIS and Vis systems• Operational: consistency of geospatial data• Functional: transparent communication between the GIS and Vis systems• Merged: one comprehensive toolkit environmentW ...

### 3 [Building real-time groupware with GroupKit, a groupware toolkit](#)

Mark Roseman, Saul Greenberg  
March 1996 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 3 Issue 1

Publisher: ACM Press

 Full text available: [pdf\(2.74 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This article presents an overview of GroupKit, a groupware toolkit that lets developers build applications for synchronous and distributed computer-based conferencing. GroupKit was constructed from our belief that programming groupware should be only slightly

harder than building functionally similar single-user systems. We have been able to significantly reduce the implementation complexity of groupware through the key features that comprise GroupKit. A runtime infrastructure

**Keywords:** GroupKit, computer-supported cooperative work, groupware toolkits, synchronous groupware, user interface toolkits

4 GPGPU: general purpose computation on graphics hardware



David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

**Publisher:** ACM Press

Full text available: pdf(63.03 MB) Additional Information: [full citation](#), [abstract](#), [citations](#)

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

5 Animated art & presentations: On creating animated presentations

Douglas E. Zongker, David H. Salesin

July 2003 **Proceedings of the 2003 ACM SIGGRAPH/Eurographics symposium on Computer animation SCA '03**

**Publisher:** Eurographics Association

Full text available: pdf(8.58 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Computers are used to display visuals for millions of live presentations each day, and yet only the tiniest fraction of these make any real use of the powerful graphics hardware available on virtually all of today's machines. In this paper, we describe our efforts toward harnessing this power to create better types of presentations: presentations that include meaningful animation as well as at least a limited degree of interactivity. Our approach has been iterative, alternating between creating ...

6 VIRTUS: a collaborative multi-user platform



Kurt Saar

February 1999 **Proceedings of the fourth symposium on Virtual reality modeling language**

**Publisher:** ACM Press

Full text available: pdf(4.09 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** VRML, VRML event model, architecture construction engineering (ACE), collaborative virtual environment (CVE), computer supported collaborative work (CSCW), dead reckoning, distributed environments, living worlds, multi-user technologies, virtual environments, virtual worlds

7 A Java based system for specifying hierarchical control flow graph models



Thorsten Daum, Robert G. Sargent

December 1997 **Proceedings of the 29th conference on Winter simulation**

**Publisher:** ACM Press

Full text available: pdf(1.06 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 Special issue on knowledge representation



Ronald J. Brachman, Brian C. Smith

February 1980 **ACM SIGART Bulletin**, Issue 70

**Publisher:** ACM Press

Full text available: [pdf\(13.13 MB\)](#) Additional Information: [full citation](#), [abstract](#)

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were two useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Second ...

9 Distributed Open Inventor: a practical approach to distributed 3D graphics



Gerd Hesina, Dieter Schmalstieg, Anton Fuhmann, Werner Purgathofer

December 1999 **Proceedings of the ACM symposium on Virtual reality software and technology**

**Publisher:** ACM Press

Full text available: [pdf\(1.52 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Distributed Open Inventor is an extension to the popular Open Inventor toolkit for interactive 3D graphics. The toolkit is extended with the concept of a distributed shared scene graph, similar to distributed shared memory. From the application programmer's perspective, multiple workstations share a common scene graph. The proposed system introduces a convenient mechanism for writing distributed graphical applications based on a popular tool in an almost transparent manner. Local variations ...

**Keywords:** computer supported cooperative work, concurrent programming, distributed graphics, distributed virtual environment, scene graph, virtual reality

10 Seeing, hearing, and touching: putting it all together



Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

**Publisher:** ACM Press

Full text available: [pdf\(20.64 MB\)](#) Additional Information: [full citation](#)

11 A survey of structured and object-oriented software specification methods and techniques



Roel Wieringa

December 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 4

**Publisher:** ACM Press

Full text available: [pdf\(605.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This article surveys techniques used in structured and object-oriented software specification methods. The techniques are classified as techniques for the specification of external interaction and internal decomposition. The external specification techniques are further subdivided into techniques for the specification of functions, behavior, and communication. After surveying the techniques, we summarize the way they are used in structured and object-oriented methods and indicate ways in which ...

**Keywords:** languages

12 Language-level support for exploratory programming of distributed virtual environments



Blair MacIntyre, Steven Feiner

November 1996 **Proceedings of the 9th annual ACM symposium on User interface software and technology**

**Publisher:** ACM Press

Full text available: pdf(1.68 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** distributed shared memory, distributed virtual environments, shared-data object model, virtual reality

13 Mu3D: a causal consistency protocol for a collaborative VRML editor



Ricardo Galli, Yuhua Luo

February 2000 **Proceedings of the fifth symposium on Virtual reality modeling language (Web3D-VRML)**

**Publisher:** ACM Press

Full text available: pdf(614.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the implementation of the Mu3D application protocol and consistency control mechanisms to allow the collaborative editing of CAD design. The collaborative editor (M3D editor) developed by us is VRML compliant. The editor has been used as a base for the European Esprit project No. 26287 - M3D and the Spanish project TEL 96-0544/CODI for Cooperative CAD applications. In our system, only the changes to local databases are transmitted to other collaborative sessions ...

**Keywords:** CAD, VRML, architecture, distributed virtual environments, multicasting

14 Chiron-1: a software architecture for user interface development, maintenance, and run-time support



Richard N. Taylor, Kari A. Nies, Gregory Alan Bolcer, Craig A. MacFarlane, Kenneth M.

Anderson, Gregory F. Johnson

June 1995 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 2 Issue 2

**Publisher:** ACM Press

Full text available: pdf(2.65 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The Chiron-1 user interface system demonstrates key techniques that enable a strict separation of an application from its user interface. These techniques include separating the control-flow aspects of the application and user interface: they are concurrent and may contain many threads. Chiron also separates windowing and look-and-feel issues from dialogue and abstract presentation decisions via mechanisms employing a client-server architecture. To separate application code from user interface ...

**Keywords:** artists, client-server, concurrency, event-based integration, user interface architectures

15 Immersion: Utilizing X3D for immersive environments



Johannes Behr, Patrick Dähne, Marcus Roth



April 2004 **Proceedings of the ninth international conference on 3D Web technology**

**Publisher:** ACM Press

Full text available: pdf(633.61 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Conceptually, the semantics of X3D describe an abstract functional behaviour of time-based, interactive 3D, multimedia information and do not at all specify a specific software or hardware setup. However, X3D clients and applications today are mainly built for desktop systems running a web-browser. In this paper we explore how suitable X3D and W3C technologies can be utilized as an application and programming model for immersive virtual environments. We present a system implementation, necessary ...

**Keywords:** computer cluster, human computer interaction, virtual reality

16 Session summaries from the 17th symposium on operating systems principle



(SOSP'99)

Jay Lepreau, Eric Eide

April 2000 **ACM SIGOPS Operating Systems Review**, Volume 34 Issue 2

**Publisher:** ACM Press

Full text available: pdf(3.15 MB) Additional Information: [full citation](#), [index terms](#)

17 Applications and architecture: SHOCK: communicating with computational messages and automatic private profiles



Rajan M. Lukose, Eytan Adar, Joshua R. Tyler, Caesar Sengupta

May 2003 **Proceedings of the 12th international conference on World Wide Web**

**Publisher:** ACM Press

Full text available: pdf(693.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A computationally enhanced message contains some embedded programmatic components that are interpreted and executed automatically upon receipt. Unlike ordinary text email or instant messages, they make possible a number of useful applications. In this paper, we describe a general and flexible messaging system called SHOCK that extends the functionality of prior computational email systems by allowing XML-encoded SHOCK messages to interact with an automatically created profile of a user. These pr ...

**Keywords:** collaborative systems, networking and distributed web applications, privacy and preferences

18 The architecture and implementation of CPN2000, a post-WIMP graphical application



Michel Beaudouin-Lafon, Henry Michael Lassen

November 2000 **Proceedings of the 13th annual ACM symposium on User interface software and technology**

**Publisher:** ACM Press

Full text available: pdf(92.34 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** OpenGL, advanced interaction techniques, coloured Petri nets, instrumental interaction, post-WIMP interfaces, two-handed input, user interface toolkit

19 Using high-speed WANs and network data caches to enable remote and distributed visualization



Wes Bethel, Brian Tierney, Jason lee, Dan Gunter, Stephen Lau

November 2000 **Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)**

**Publisher:** IEEE Computer Society

Full text available:  [pdf\(302.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)  
 [Publisher Site](#)

Visapult is a prototype application and framework for remote visualization of large scientific datasets. We approach the technical challenges of tera-scale visualization with a unique architecture which employs high speed WANs and network data caches for data staging and transmission. This architecture allows for the use of available cache and compute resources at arbitrary locations on the network. High data throughput rates and network utilization are achieved by parallelizing I/O at each ...

## 20 [Formal methods I: Reactive process networks](#)



Marc Geilen, Twan Basten

September 2004 **Proceedings of the 4th ACM international conference on Embedded software EMSOFT '04**

**Publisher:** ACM Press

Full text available:  [pdf\(262.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Data flow process networks are a good model of computation for streaming multimedia applications incorporating audio, video and/or graphics streams. Process networks are concurrent processes communicating streams of data through FIFO channels. They can be executed efficiently and determinately on multiprocessor platforms. However, such stream processing applications are becoming more dynamic, often requiring run-time reconfigurations. Moreover, stream processing is not always an application on i ...

**Keywords:** media processing, multiprocessor systems, operational semantics, process networks, reactive systems, signal processing

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